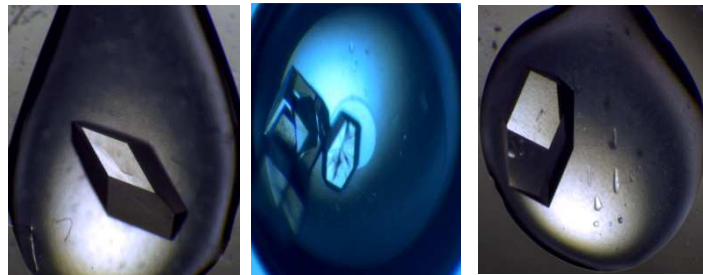


5. Protein Crystal Imaging System

Protein crystallization is a critical approach to understand the functionality and macro structure of protein in development of novel drugs. Currently, it is difficult for researchers to predict exact conditions for formation of crystals. Protein crystallography crystal imager is an automated imaging system for monitoring the crystal growth and characterization of different conditions for formation of crystals of 96 wells by using advanced computation methods and AI based powerful image processing algorithms. In each step of the crystallization process, system observes and captures the crystallization drops during frequent interval of times and simultaneously documents the crystallization results. This system will help to develop a well diffracting single crystal for X-ray diffraction.



Protein Crystal Imaging System



Protein crystals in 2mm oil drop

System has been delivered at RB& HSD, BARC and under clinical use.